

Title (en)  
Ground-plane antenna.

Title (de)  
Antenne mit Gegengewicht.

Title (fr)  
Antenne à contre-poids.

Publication  
**EP 0075374 A1 19830330 (EN)**

Application  
**EP 82201173 A 19820922**

Priority  
HU 274481 A 19810923

Abstract (en)  
A ground-plane antenna comprises a quaterwave resonant radiating rod (1) made of a hollow tube in which a central earthing rod (7) is arranged to form with the internal cylindrical wall of the radiating rod a line section short-circuited at the upper end. A further line section (16) open at the lower end is arranged in the extension of the short-circuited line section to form a combined tapped line section therewith having an electrical length substantially equal to the quarterwavelength, in which the combined line section is coupled with its tapping points in parallel to the input terminals (4, 5) of the antenna, whereby the susceptance represented by the combined line section is capable of compensating the changes of the antenna reactance within a fairly wide band.

IPC 1-7  
**H01Q 9/38**

IPC 8 full level  
**H01Q 9/22** (2006.01); **H01Q 9/32** (2006.01); **H01Q 9/38** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP US)  
**H01Q 9/38** (2013.01 - EP US); **H01Q 9/40** (2013.01 - EP US)

Citation (search report)  
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Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0075374 A1 19830330; EP 0075374 B1 19860305**; AT E18479 T1 19860315; CA 1191252 A 19850730; CS 229649 B2 19840618; DD 204183 A5 19831116; DE 3269647 D1 19860410; DK 158179 B 19900402; DK 158179 C 19900903; DK 422882 A 19830324; FI 75067 B 19871231; FI 75067 C 19880411; FI 823237 A0 19820921; FI 823237 L 19830324; HU 182376 B 19831228; IN 158576 B 19861213; JP S58136112 A 19830813; PL 135596 B1 19851130; PL 238317 A1 19830509; RO 84948 A 19840929; RO 84948 B 19841030; US 4521784 A 19850604

DOCDB simple family (application)  
**EP 82201173 A 19820922**; AT 82201173 T 19820922; CA 411930 A 19820922; CS 665782 A 19820916; DD 24340582 A 19820921; DE 3269647 T 19820922; DK 422882 A 19820922; FI 823237 A 19820921; HU 274481 A 19810923; IN 675DE1982 A 19820906; JP 16417982 A 19820922; PL 23831782 A 19820922; RO 10866482 A 19820921; US 41670282 A 19820910